

Table of Contents, Volume 38, 1985

Number 1, January

| | |
|--|--|
| Investment Rationale for Range Improvement Practices in Eastern Montana—John R. Lacey, J. Ross Wight, and John P. Workman | |
| Mechanical Renovation of Shortgrass Prairie for Increased Herbage Production—L.W. Griffith, G.E. Schuman, F. Rauzi, and R.E. Baumgartner | |
| Navajo Use of Mixed-breed Dogs for Management of Predators—Hal L. Black and Jeffrey S. Green | |
| Impact of SO ₂ Exposure on the Response of <i>Agropyron smithii</i> to Defoliation—W.K. Lauenroth, J.K. Detling, M.G. Milchunas, and J.L. Dodd | |
| Viewpoint: Letter on "Prediction of Sediment Yield from Southern Plains Grasslands with the Universal Soil Loss Equation—S.J. Smith, J.R. Williams, R.G. Menzel, and G.A. Coleman | |
| Influence of Season and Intensity of Defoliation on Bluebunch Wheatgrass Survival and Vigor in Southern British Columbia—Alastair McLean and Sandra Wikeem | |
| Some Growth Characteristics of Four Old World Bluestems—P.L. Coyne and J.A. Bradford | |
| Response of an Irrigated Cool- and Warm-Season Grass Mixture to Nitrogen and Harvest Scheme—Joseph L. Petersen and Lowell E. Moser | |
| Proline Concentrations in Water Stressed Grasses—U.G. Bokhari and J.D. Trent | |
| Stand Age, Precipitation, and Temperature Effects on Forage Yield—Larry M. White | |
| Effect of Jointworms on the Growth and Reproduction of Four Native Range Grasses of Idaho—Brian M. Spears and William F. Barr | |
| Prescribed Burning in the Loess Hills Mixed Prairie of Southern Nebraska—Walter Schacht and J. Stubbendieck | |
| Vegetational Traits of Patch-grazed Rangeland in West-central Kansas—Charles B. Ring II, Robert A. Nicholson, and John L. Launchbaugh | |
| Response to Tebuthiuron by Utah Juniper and Mountain Big Sagebrush Communities—Warren P. Clary, Sherel Goodrich, and Benton M. Smith | |
| Nutritive Value of Tree Leaves in the Kansas Flint Hills—J.R. Forwood and C.E. Owensby | |
| Nutritional and Physical Attributes of Seeds of Some Common Sagebrush-steppe Plants: Some Implications for Ecological Theory and Management—Michael Ira Kelrick and James A. McMahon | |
| Nutrient Removal Rates from Ruminoreticula of Cattle Grazing Kansas Flint Hills Range—J.R. Forwood, C.E. Owensby, and G. Towne | |
| Quality of Water for Livestock in Man-made Impoundments in the Northern High Plains—Mark A. Rumble | |
| Changes in Diets of Wapiti during a Hunting Season—Luigi E. Morgantini and Robert J. Hudson | |
| Effect of Forage Depletion on the Feeding Rate of Wapiti—Robert J. Hudson and M.T. Nietfeld | |
| Factors Influencing Patterns of Cattle Grazing Behavior on Shortgrass Steppe—R.L. Senft, L.R. Rittenhouse, and R.G. Woodmansee | |
| A Modified Procedure for Esophageal Fistulation of Sheep—E.J. Stevens, G.G. Thomson, and K.F. O'Connor | |
| Evaluation of Pedometers for Measuring Distance Traveled by Cattle on Two Grazing Systems—John W. Walker, R.K. Heitschmidt, and S.L. Dowhower | |
| A Tool for Sampling Flat Jointed Opuntia—Anthony A. Huffman and Pete W. Jacoby, Jr. | |
| Book Reviews | |

Number 2, March

| | |
|---|--|
| President's Address | |
| Rough Fescue Response to Season and Intensity of Defoliation—Alastair McLean and Sandra Wikeem | |
| Western Wheatgrass Responses to Simulated Grazing—D.O. Stroud, R.H. Hart, M.J. Samuel, and J.D. Rodgers | |

| | |
|--|-----|
| Effects of Sulfur Fertilization on Productivity and Botanical Composition of California Annual Grassland—Richard M. Caldwell, John W. Menke, and Don A. Duncan | 108 |
| Germination, Forage Yield, and Seed Production of American Sloughgrass (<i>Beckmannia syzigachne</i>)—A. Boe and R. Wynia | 114 |
| Germination Response of Greasewood (<i>Sarcobatus vermiculatus</i>) to Temperature, Water Potential and Specific Ions—James T. Romo and Lee E. Eddleman | 117 |
| Disking and Seeding Effects on Sod Bound Mixed Prairie—M. Hari, S.S. Waller, S.R. Lowry, and R.N. Gates | 121 |
| Emergence and Establishment of Basin Wildrye and Tall Wheatgrass in Relation to Moisture and Salinity—Bruce A. Roundy | 126 |
| Recovery of Sagebrush-Grass Vegetation Following Wildfire—Neil E. West and M.A. Hassan | 131 |
| Effects of Regulated Water Flows on Regeneration of Fremont Cottonwood—Pattie Fenner, Ward W. Brady, and David R. Patton | 135 |
| Performance and Phosphorus Status of Range Cows with and without Phosphorus Supplementation—M.B. Judkins, J.D. Wallace, E.E. Parker, and J.D. Wright | 139 |
| Comparison of Heifer Weight Gains and Forage Quality for Continuous and Short-duration Grazing Systems—H.G. Jung, R.W. Rice, and L.J. Koong | 144 |
| Leafy Spurge Control with Herbicides in North Dakota: 20-Year Summary—R.G. Lym and Calvin G. Messersmith | 149 |
| Seasonal Trends in the Chemical Composition of Ten Range Plants in South Texas—Michael W. Meyer and Robert D. Brown | 154 |
| The Decline of the Angora Goat Industry in Three Texas Counties—Jerry H. Scrivner | 158 |
| Seasonal Nutrient Estimates of Mule Deer Diets in the Texas Panhandle—B.F. Sowell, B.H. Koerth, and F.C. Bryant | 163 |
| Values of Four Communities for Mule Deer on Ranges with Limited Summer Habitat—Dennis D. Austin and Philip J. Urness | 167 |
| Particle Size Changes in Rumsens of Cattle Grazing Kansas Flint Hills Range—J.R. Forwood, C.E. Owensby, and G. Towne | 171 |
| Effects of Forage Availability on Grazing Behavior of Heifers—David L. Scarnecchia, Anastasios S. Nastis, and John C. Malechek | 177 |
| Estimation of Fecal Output and Particulate Passage Rate with a Pulse Dose of Ytterbium-labeled Forage—L.J. Krysl, F.T. McCollum, and M.L. Galyean | 180 |
| An Effective Fecal Harness for Free-grazing Goats—James A. Pfister | 184 |
| A New Esophageal Plug—John W. Walker, Jerry W. Stuth, R.K. Heitschmidt, and Steven L. Dowhower | 185 |
| A Precision Planter for Seeding Emergence Evaluation—G.W. Frasier | 187 |
| Book Reviews | 190 |

Number 3, May

| | |
|--|-----|
| Effects of Sagebrush Control Methods and Seeding on Runoff and Erosion—John C. Brown, Raymond A. Evans, and James A. Young | 195 |
| Influence of Site Manipulation on Infiltration Rates of a Depleted West Texas Range Site—Donald J. Bedunah and Ronald E. Sosebee | 200 |
| Cattle Use of Riparian Meadows in the Blue Mountains of Northeastern Oregon—R.L. Gillen, W.C. Krueger, and R.F. Miller | 205 |
| Intake and Diet Selection by Protein Supplemented Grazing Steers—M.B. Judkins, L.J. Krysl, J.D. Wallace, M.L. Galyean, K.D. Jones, and E.E. Parker | 210 |
| Food Habits and Distribution of Cattle on a Forest and Pasture Range in Northern Idaho—John E. Mitchell and Richard T. Rodgers | 214 |
| Effects of Stocking Rate on a Rough Fescue Grassland Vegetation—W.D. Wilms, S. Smoliak, and J.F. Dormaar | 220 |
| Cattle Trampling of Crested Wheatgrass Under Short-duration Grazing—David F. Balph and John C. Malechek | 226 |
| Using Aerial Photography for Detecting Blackbrush (<i>Acacia rigidula</i>) on South Texas Rangelands—J.H. Everitt | 228 |

| | | | |
|--|-----|---|-----|
| A Photographic Technique for Repeated Mapping of Rangeland Plant Populations in Permanent Plots—M.K. Owens, H.G. Gardiner, and B.E. Norton | 231 | Germination Characteristics of <i>Helianthus maximiliani</i> Schrad. and <i>Simsia calva</i> (Engelm. & Gray) Gray—D.W. Owens and C.A. Call | 336 |
| Application of Herbicides on Rangelands with a Carpeted Roller: Evaluation of Four Herbicides for Control of Honey Mesquite—H.S. Mayeux, Jr., and R.A. Crane | 233 | Growth Parameter Differences between Populations of Blue Grama—M.J. Samuel | 349 |
| Predicting Yield Response to Nitrogen Fertilization on Northern Great Plains Rangelands—J. Ross Wight and E. Bruce Godfrey | 238 | Evaluation and Management of Grasses for Dual Livestock and Game Bird Use—E.C. Holt, J.R. Cain, and R.J. Hendler | 342 |
| Forage Responses of Buffelgrass and 'Pretoria 90' Bluestem to Nitrogen and Phosphorus Fertilization in a Subtropical Climate—R.P. Wiedenfeld, W.T.W. Woodward, and R.R. Hoverson | 242 | The Animal-Unit and Animal-Unit-Equivalent Concepts in Range Science—David L. Scarnechia | 346 |
| Stubble Height, Basal Cover, and Herbage Production Relationships in Grasslands of Northern Greece—Vasilios P. Papanastasis | 247 | Magnification and Shrub Stemmy Material Influences on Fecal Analysis Accuracy—Jerry L. Holechek and Raul Valdez | 350 |
| Seasonal Changes in Nitrogen and Moisture Content of Cattle Manure in Cool-season Pastures—T.J. Lysyk, E.R. Eaton, and P.D. Evenson | 251 | Automated Rainout Shelter for Controlled Water Research—R.E. Ries and L.G. Zachmeier | 353 |
| Screening Range Grasses for Resistance to Black Grass Bugs <i>Labops hesperius</i> and <i>Irbisia pacifica</i> (Hemiptera:Miridae)—James D. Hansen, Kay H. Asay, and Dale C. Nielson | 254 | Response of Vegetation of the Northern Great Plains to Precipitation Amount and Grazing Intensity—Kenneth C. Olson, Richard S. White, and Brian W. Sindelar | 357 |
| Endomycorrhizae Enhance Growth of Shrub Species in Processed Oil Shale and Disturbed Native Soil—C.A. Call and C.M. McKell | 258 | Economic Returns from Burning Tobosagrass in the Texas Rolling Plains—D.E. Ethridge, R.G. Sudderth, and H.A. Wright | 362 |
| Topsoil and Mulch Effects on Plant Species and Community Responses of Revegetated Mined Land—B.A. Pinchak, G.E. Schuman, and E.J. Deput | 262 | Ranch Resource Differences Affecting Profitability of Crested Wheatgrass as a Spring Forage Source—Kimberly A. Spielman and Ronald L. Shane | 365 |
| Green Needlegrass Seedling Morphology in Relation to Planting Depth—Timothy E. Fulbright, A.M. Wilson, and Edward F. Redente | 266 | Effects of Secondary Metabolites from Balsam Poplar and Paper Birch on Cellulose Digestion—Kenneth L. Risenhoover, Lyle A. Renecker, and Luigi E. Morgantini | 370 |
| Germination and Seedling Growth of Tall Wheatgrass and Basin Wildrye in Relation to Boron—Bruce A. Roundy | 270 | Emergence and Survival Response of Seven Grasses for Six Wet-Dry Sequences—G.W. Frasier, J.R. Cox, and D.A. Woolhiser | 372 |
| Above-ground Biomass and Nitrogen Quantities in a Big Sacaton (<i>Sporobolus wrightii</i>) Grassland—Jerry R. Cox | 273 | Some Responses of Riparian Soils to Grazing Management in Northwestern Oregon—C.C. Bohn and J. Buckhouse | 378 |
| Rhizomes and Koots below Clipped Pinegrass Tillers Have a Higher Percent Carbohydrate when Attached to Other Nonclipped Tillers—Darryl G. Stout and Barbara Brooke | 276 | Book Reviews | 382 |
| Black Sagebrush: Mule Deer Winter Preference and Monoterpenoid Content—Barbara Behan and Bruce L. Welch | 278 | | |
| Nest Site Selection by Mountain Plovers in Northcentral Montana—Sally L. Olson and Daniel Edge | 280 | Number 5, September | |
| The Effect of Early Winter or Spring Burning on Runoff, Sediment, and Vegetation in the Post Oak Savannah of Texas—N.E. Garza, Jr., and W.H. Blackburn | 283 | Leafy Spurge Control and Improved Forage Production with Herbicides—R.G. Lym and C.G. Messersmith | 386 |
| A Floating Quadrat—G.W. Tanner and M.E. Drummond | 287 | Controlling Shrubs in the Arid Southwest with Tebuthiuron—Carlton H. Herbel, Howard L. Morton, and Robert P. Gibbens | 391 |
| Book Reviews | 288 | The Influence of Several Range Improvements on Estimated Carrying Capacity and Potential Beef Production—Tony Svejcar and Martin Vavra | 395 |
| | | Seed Predation, Seedling Emergence, and Rhizome Characteristics of American Licorice—A. Boe and R. Wynia | 400 |
| Number 4, July | | Productivity of Russian Wildrye and Crested Wheatgrass and Their Effect on Prairie Soils—S. Smoliak and J.F. Dormaar | 403 |
| The Use of Supplement Blocks for Sheep Grazing Dry, Annual Pastures in California—E.J. DePeters, M.R. Dally, A.A. Alwash, and P. Therkelsen-Tucker | 291 | Seasonal Nitrogen Translocation in Big Bluestem During Drought Conditions—D.C. Hayes | 406 |
| Factors Influencing Selection of Resting Sites by Cattle on Shortgrass Steppe—R.L. Senft, L.R. Rittenhouse, and R.G. Woodmansee | 295 | Green Needlegrass and Blue Grama Seedling Growth in Controlled Environments—Timothy E. Fulbright, A.M. Wilson, and Edward F. Redente | 410 |
| Forage Use by Cattle and Sheep Grazing Separately and Together on Summer Range in Southwestern Utah—G.B. Ruyle and James E. Bowns | 299 | Effects of Selected Seed Treatment on Germination Rates of Five Range Plants—Larry C. Weaver and Gilbert L. Jordan | 415 |
| Effects of Hunger Satiation on Diet Quality by Grazing Sheep—H.G. Jung and L.F. Koong | 302 | Sheep Losses to Predators on a California Range, 1973-1983—Jerry H. Scrivner, Walter E. Howard, Alfred H. Murphy, and John R. Hays | 418 |
| Factors Affecting Forage Intake by Range Ruminants: A Review—C.D. Allison | 305 | Video Imagery: A New Remote Sensing Tool for Range Management—J.H. Everitt and P.R. Nixon | 421 |
| Growth and Development of Pinegrass in Interior British Columbia—Darryl G. Stout and Barbara Brooke | 312 | Comparison of the Reference Unit Method and Dimensional Analysis Methods for Two Large Shrubby Species in the Caatinga Woodlands—Robert D. Kirmse and Brien E. Norton | 425 |
| Effects of Moisture and Temperature on Germination of Idaho Fescue—Paul Doescher, Richard Miller, and Alma Winward | 317 | Use of Power Curves to Monitor Range Trend—William C. Tanke, and Charles D. Bonham | 428 |
| Temperature and Water Stress Effects on Growth of Tropical Grasses—D.H. Bade, B.E. Conrad, and E.C. Holt | 321 | Browse Quality Response to Forest Fertilization to Soils in Florida—John M. Wood, and George W. Tanner | 432 |
| Soil and Vegetation Relationship in a Central Plains Saltgrass Meadow—R.A. Bowman, D.M. Mueller, and W.J. McGinnies | 325 | Dietary Overlap Among Axis, Fallow, and Black-tailed Deer and Cattle—Henry W. Elliott III and Reginald H. Barrett | 435 |
| Influence of Canopy Characteristics of One-seed Juniper on Understory Grasses—M.R. Schott and R.D. Pieper | 328 | Cattle Diets in a Ponderosa Pine Forest in the Northern Black Hills—Daniel W. Uresk and Wayne W. Paintner | 440 |
| Environmental Factors Influencing Gardner Saltbush Seed Dormancy Alleviation—R. James Ansley and Rollin H. Abernethy | 331 | Cattle Diets on Shortgrass Ranges with Different Amounts of Four-wing Saltbush—M.C. Shoop, Richard C. Clark, W.A. Laycock, and Richard M. Hansen | 443 |
| | | Evaluation of Fecal Indices to Predict Cattle Diet Quality—Helen Wofford, Jerry L. Holechek, M.L. Galyean, Joe D. Wallace, and Manuel Cardenas | 450 |
| | | N, P, and K Fertilization of Tall Fescue (<i>Festuca arundinacea</i> Schreb.) Overseeded Range in Eastern Oklahoma—R.L. Mitchell, A.L. Ewing, and W.E. McMurphy | 455 |

| | |
|--|-----|
| Site Variation in Forage Qualities of Mountain Mahogany and Serviceberry— <i>Roland C. Kufeld, Marilyn L. Stevens, and David C. Bowden</i> | 458 |
| Long-term Residual Effects of Nitrogen Fertilization on Western Wheatgrass— <i>Larry M. White</i> | 461 |
| Effects of Controlling Black-tailed Prairie Dogs on Plant Production— <i>Daniel W. Uresk</i> | 466 |
| An Energy Model for Adult Female Caribou of the Denali Herd, Alaska— <i>Rodney D. Boertje</i> | 468 |
| Cannula Adaptations for Esophageally Fistulated Cattle— <i>J.R. Forwood, J.L. Ortbals, G. Zinn, and J.A. Paterson</i> | 474 |
| Viewpoint: Forage and Range Research Needs in the Central Great Plains— <i>K.P. Vogel, H.J. Gorz, and F.A. Haskins</i> | 477 |
| Book Reviews | 279 |

Number 6, November

| | | | |
|---|-----|---|-----|
| Evaluation of Wolf Control to Reduce Cattle Predation in Alberta— <i>Ronald R. Bjorge and John R. Gunnson</i> | 483 | Dormancy Breaking and Germination Requirements of Nimble Will (<i>Muhlenbergia schreberi</i> Gmel.) Seeds— <i>Jerry M. Baskin and Carol C. Baskin</i> | 513 |
| Recovery of Vegetative Cover and Soil Organic Matter during Revegetation of Abandoned Farmland in a Semiarid Climate— <i>J.F. Dormaar and S. Smoliak</i> | 487 | Variation and Names in the <i>Poa secunda</i> Complex— <i>Elizabeth Anne Kellogg</i> | 516 |
| Dentritification and Bacterial Numbers in Riparian Soils of a Wyoming Mountain Watershed— <i>M.R. Hussey, Q.D. Skinner, J.C. Adams and A.J. Harvey</i> | 492 | Precipitation, Soil and Herbage Production on Southeast Wyoming Range Sites— <i>R.H. Hart and M.J. Samuel</i> | 522 |
| Effects of Tillage and Manure on Emergence and Establishment of Russian Wildrye in a Saltgrass Meadow— <i>D.M. Mueller, R.A. Bowman, and W.J. McGinnies</i> | 497 | Plant Associations within the Interior Valleys of the Umpqua River Basin, Oregon— <i>Winston Paul Smith</i> | 526 |
| Storage Life of Illinois Bundleflower and Western Indigo Seed— <i>C.A. Call</i> | 500 | Effects of Clipping on Burned and Unburned Creeping Bluestem— <i>R.S. Kalmbacher, F.G. Martin, W.S. Terry, D.H. Hunter, and L.D. White</i> | 531 |
| Morphology and Growth in Seedlings of Several C4, Perennial Grasses— <i>P.I. Coyne and J.A. Bradford</i> | 504 | The Effects of Fire on the Blackbrush (<i>Coleogyne ramossissima</i>) Community of Southwestern Utah— <i>Jim Callison, Jack D. Brotherson, and James E. Bowns</i> | 535 |
| | | Cattle Grazing Blue Grama Rangeland I. Seasonal Diets and Rumen Fermentation— <i>F.T. McCollum, M.L. Galyean, L.J. Krysl, and J.D. Wallace</i> | 539 |
| | | Cattle Grazing Blue Grama Rangeland II. Seasonal Forage Intake and Digesta Kinetics— <i>F.T. McCollum and M.L. Galyean</i> | 543 |
| | | Dietary Overlap Among Axis, Fallow, and Black-tailed Deer and Cattle— <i>Henry W. Elliott III and Reginald H. Barrett</i> | 546 |
| | | Effects of Jackrabbit Grazing, Clipping, and Drought on Crested Wheatgrass Seedlings— <i>Bruce A. Roundy, Greg J. Cluff, J. Kent McAdoo, and Raymond A. Evans</i> | 551 |
| | | An Evaluation of Beta Attenuation for Estimating Aboveground Biomass in a Tallgrass Prairie— <i>Alan K. Knapp, Marc D. Abrams, and Lloyd C. Hulbert</i> | 556 |
| | | The Relationship of Stocking Intensity and Stocking Pressure to Other Stocking Variables— <i>David L. Scarneccchia</i> | 558 |
| | | Observation on Why Mongrels May Make Effective Livestock Protecting Dogs— <i>R.P. Coppinger, C.K. Smith, and L. Miller</i> | 560 |
| | | The Role of Fourwing Saltbush in Mined Land Reclamation: A Viewpoint— <i>D. Terrance Booth</i> | 565 |
| | | Book Reviews | 565 |